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PATENT & TRADEMARK OFFICE

FIG.2
Prior Art

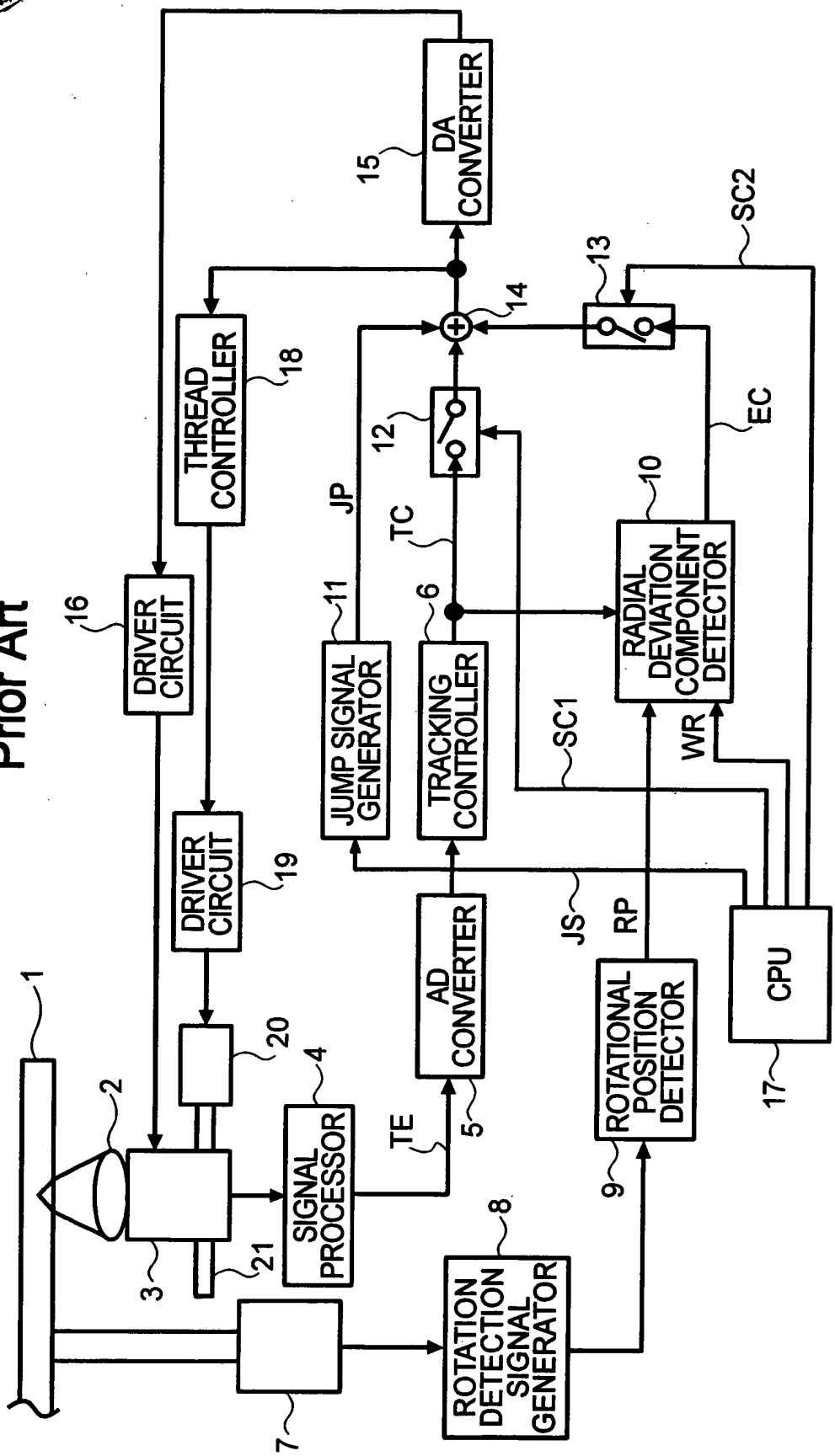


FIG.3
Prior Art

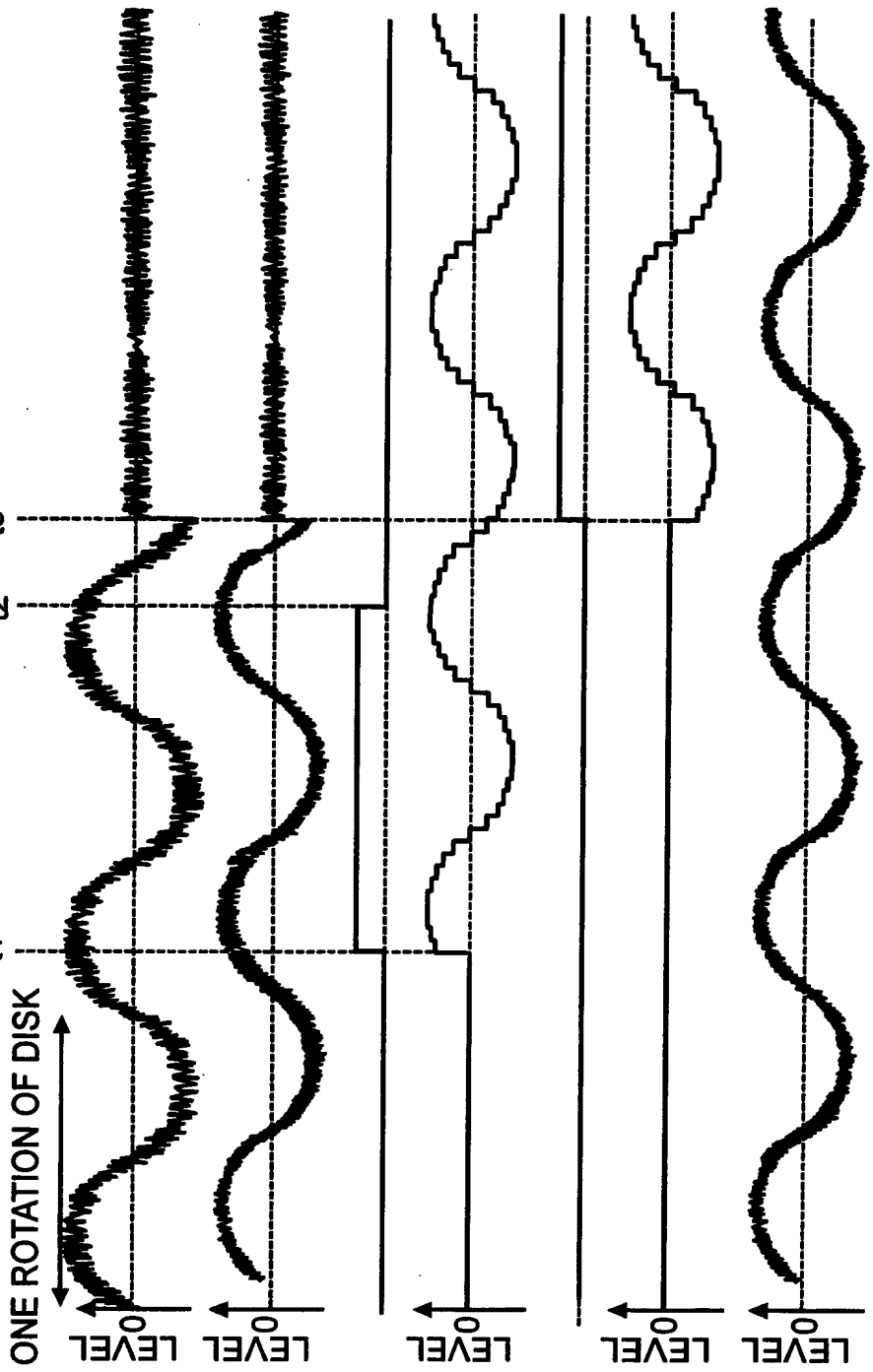


FIG.4
Prior Art

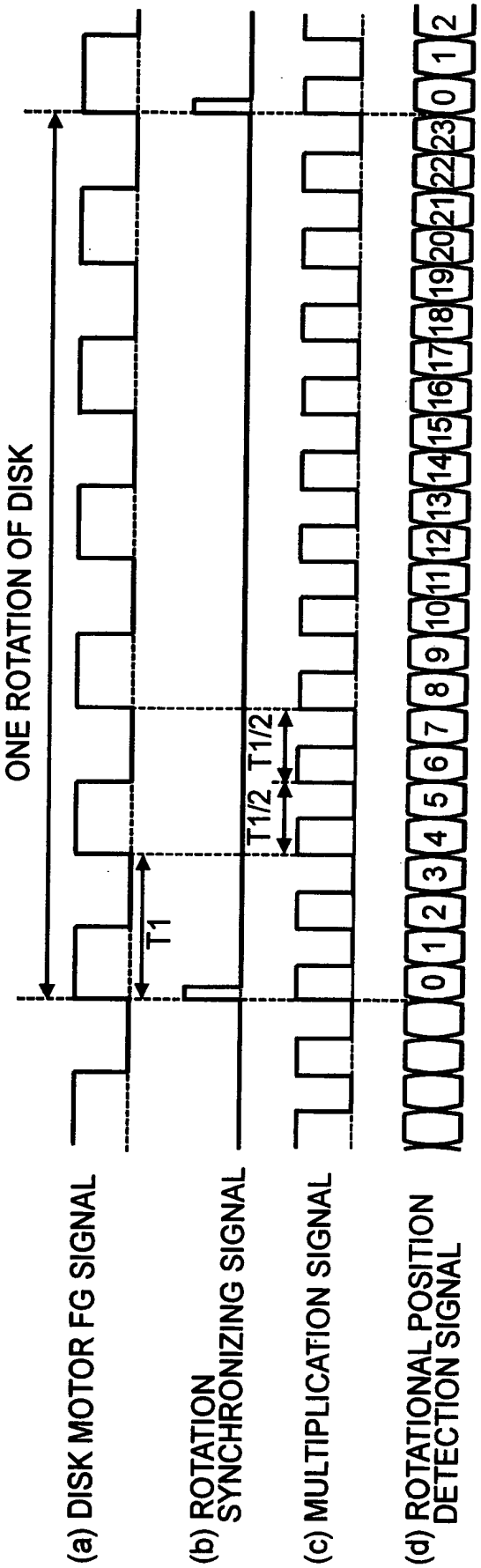

ONE ROTATION OF DISK
T1
T1/2
T1/2
(a) DISK MOTOR FG SIGNAL
(b) ROTATION SYNCHRONIZING SIGNAL
(c) MULTIPLICATION SIGNAL
(d) ROTATIONAL POSITION DETECTION SIGNAL
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2

FIG.5
Prior Art

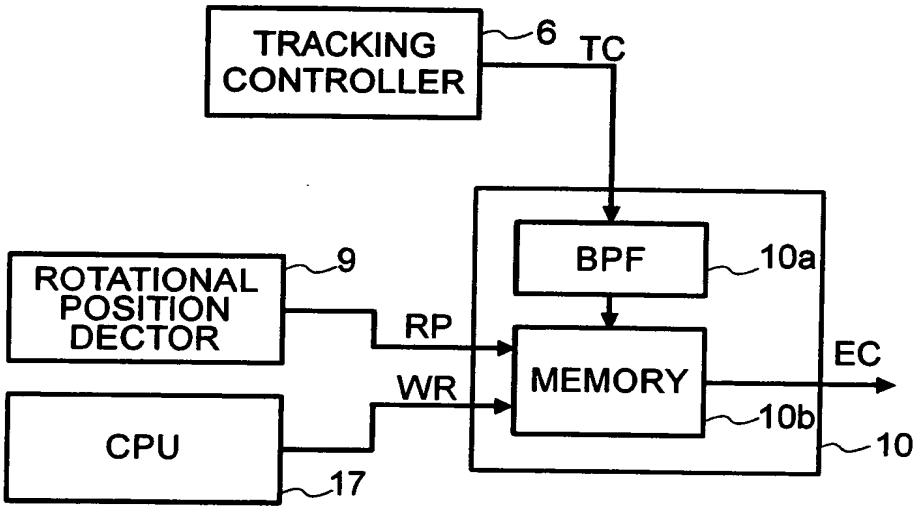


FIG.6
Prior Art

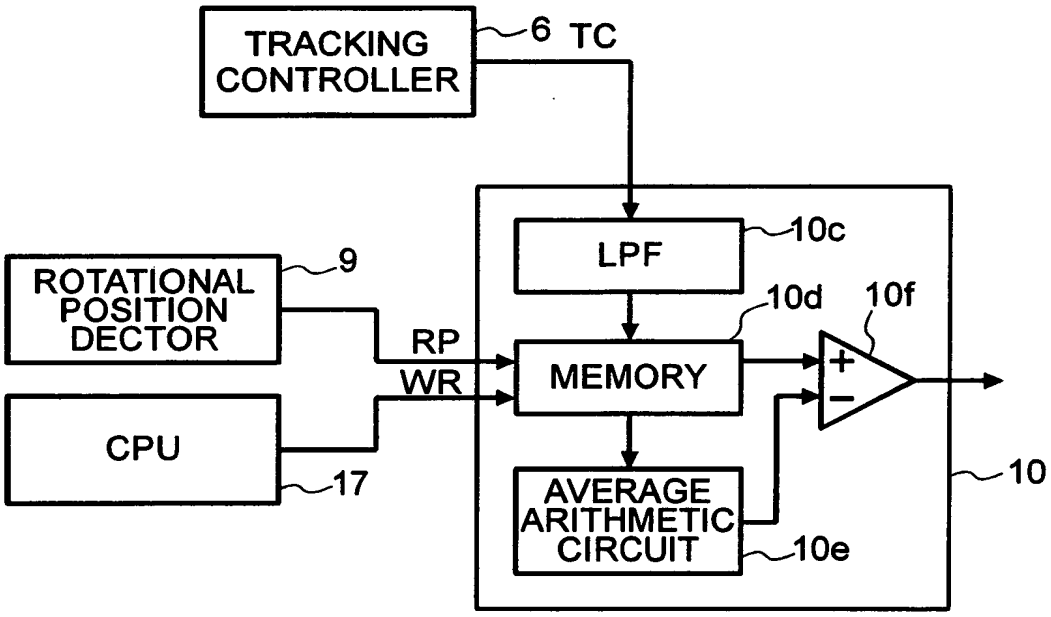


FIG.7
Prior Art

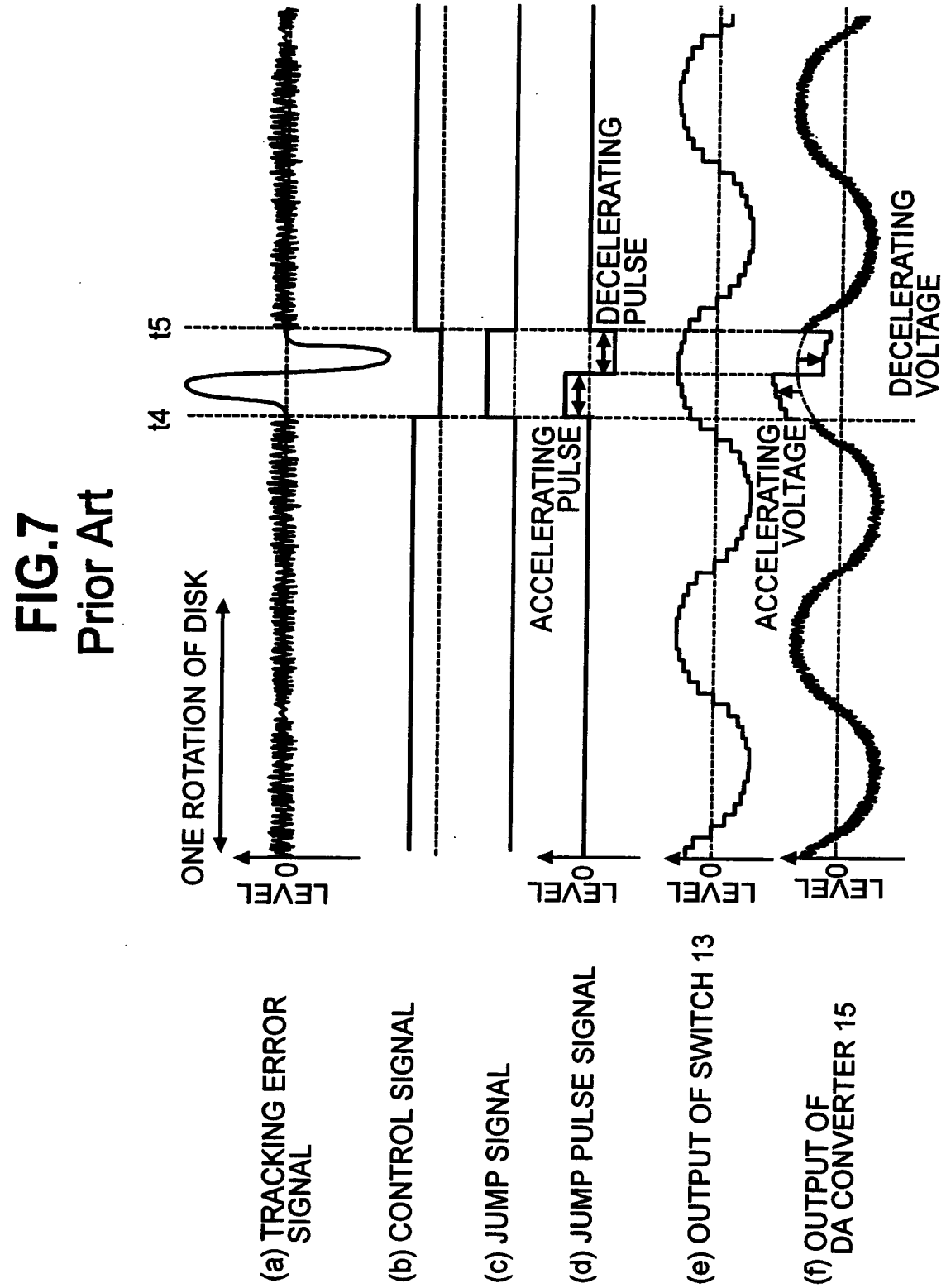


FIG.8
Prior Art

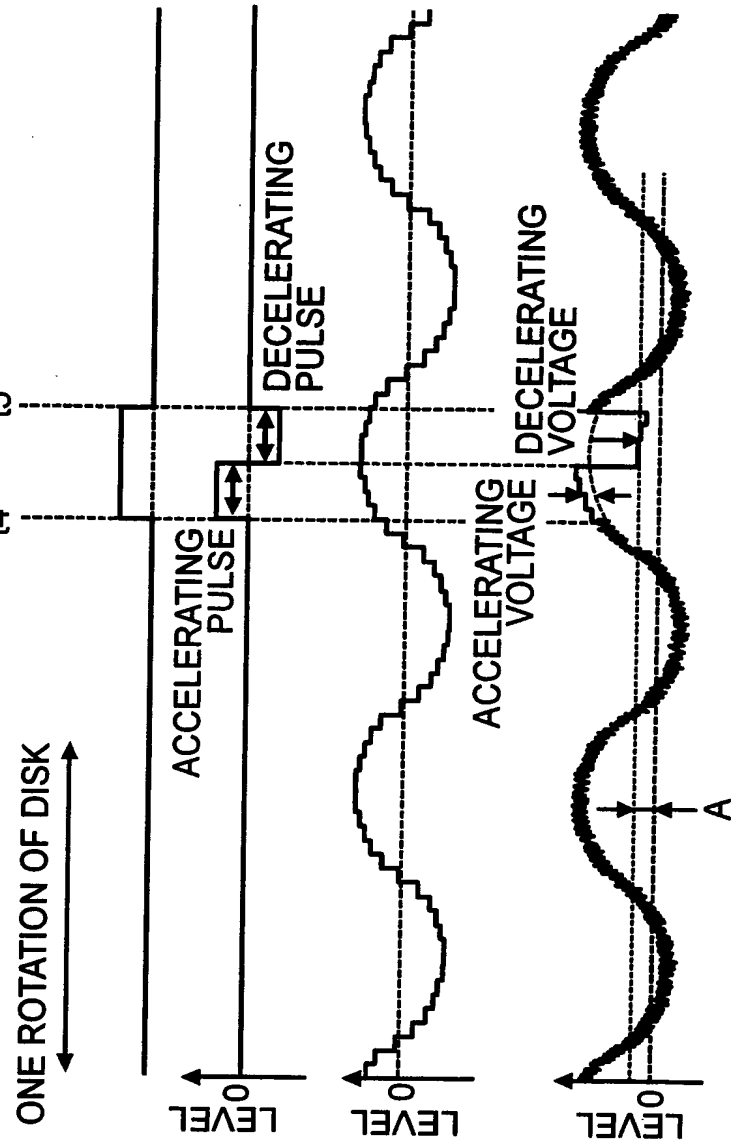
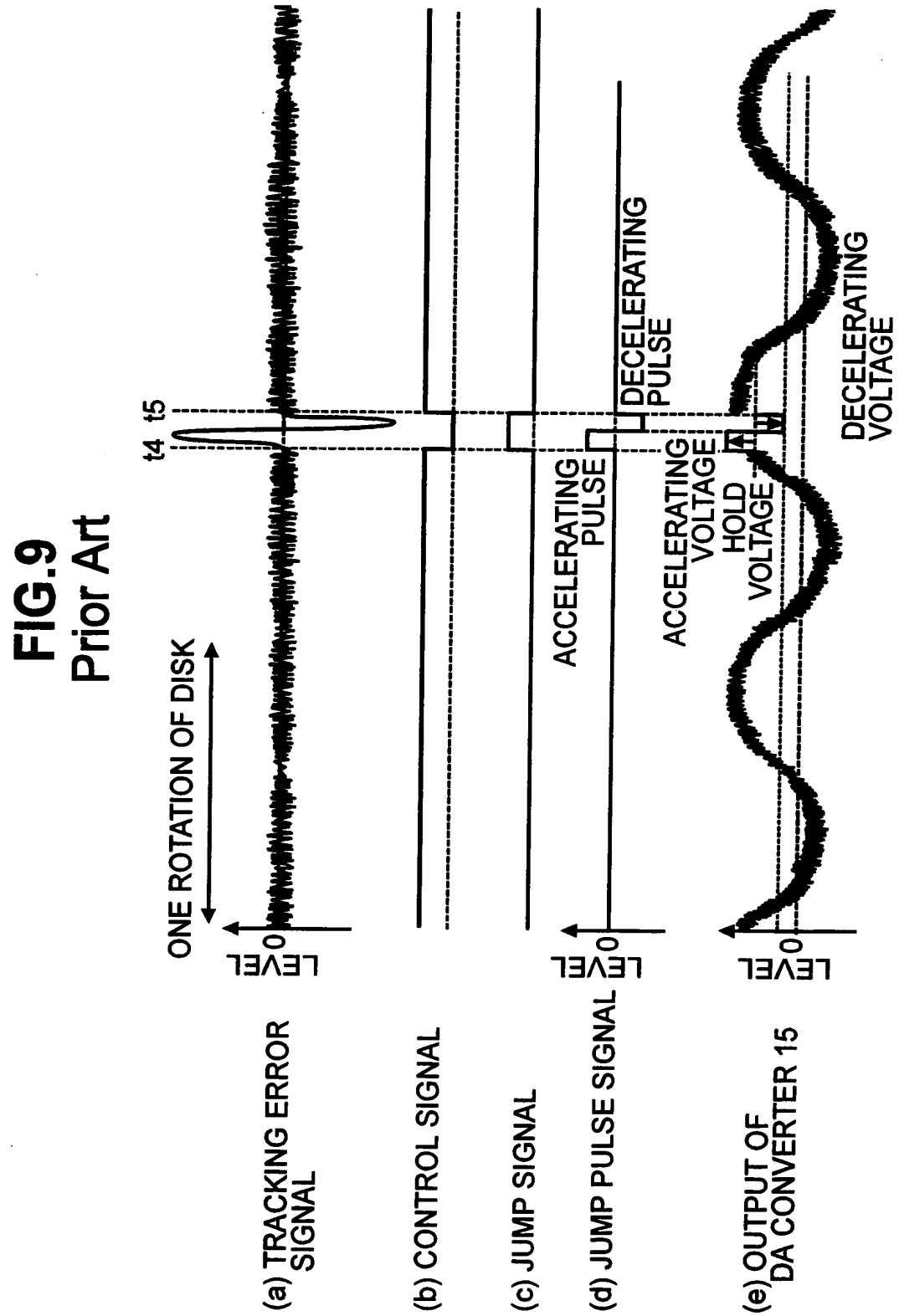


FIG.9
Prior Art



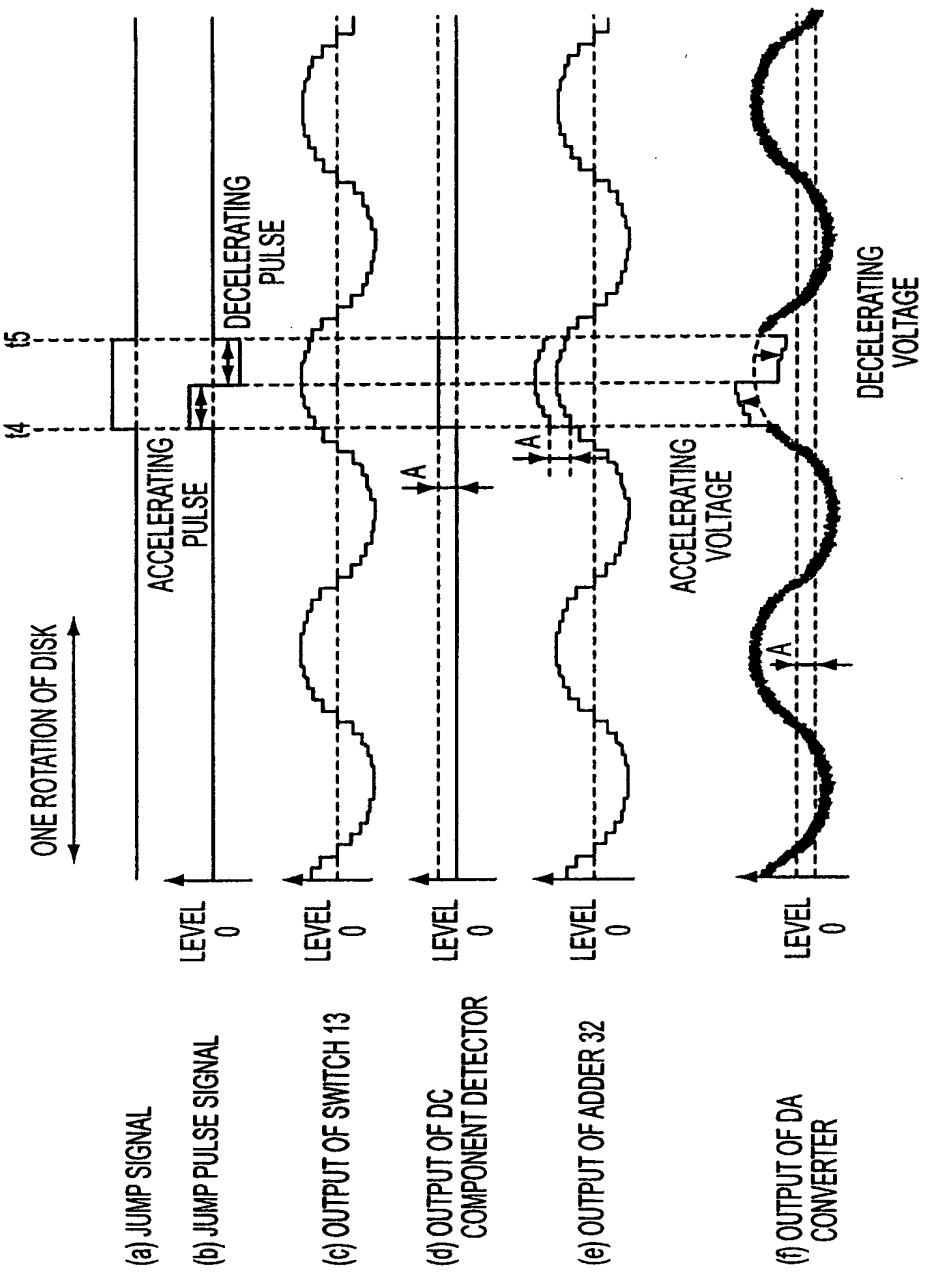
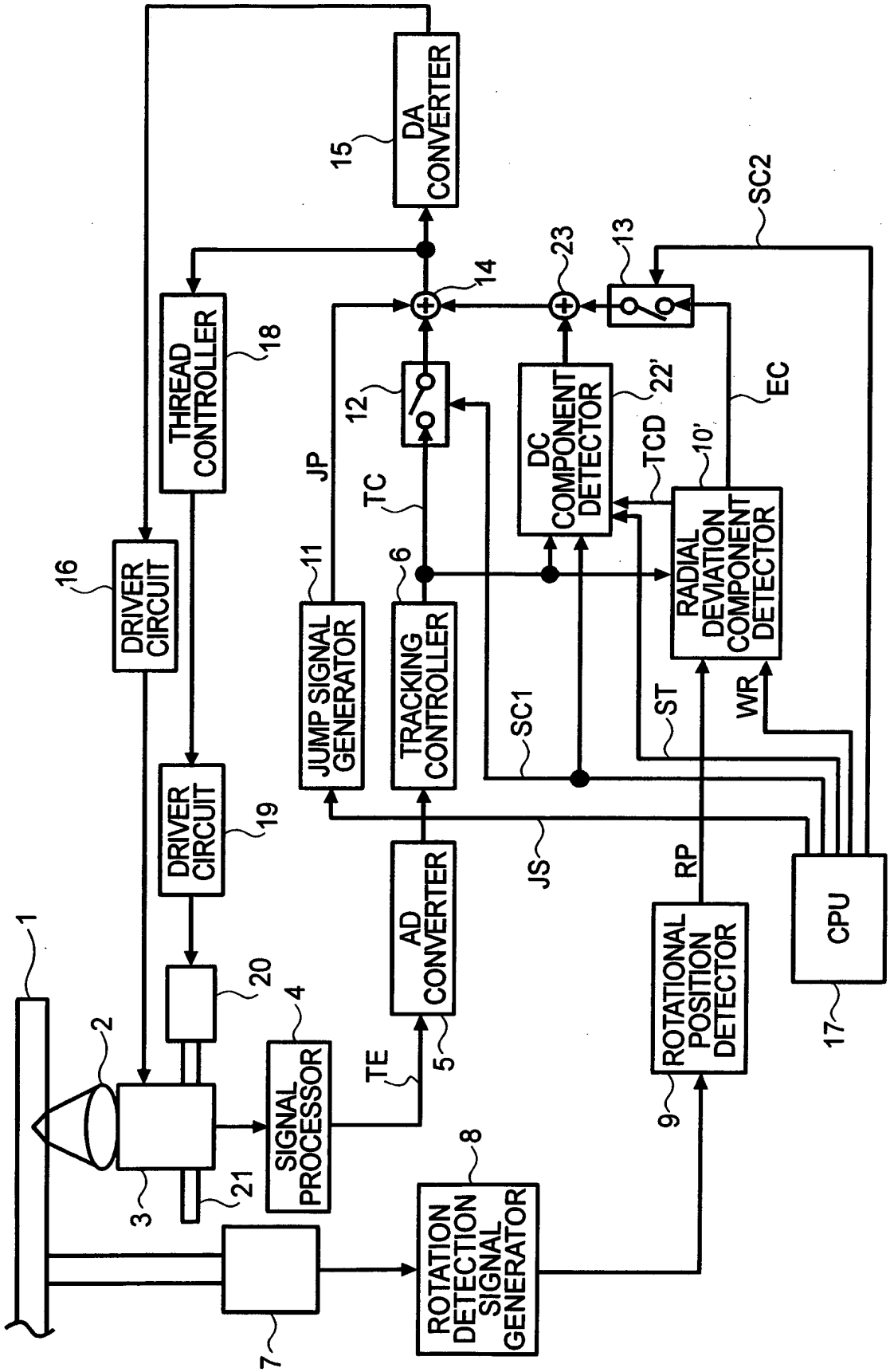

ONE ROTATION OF DISK
t4
t5
ACCELERATING PULSE
DECELERATING PULSE
ACCELERATING VOLTAGE
DECELERATING VOLTAGE
A
LEVEL 0
(a) JUMP SIGNAL
(b) JUMP PULSE SIGNAL
(c) OUTPUT OF SWITCH 13
(d) OUTPUT OF DC COMPONENT DETECTOR
(e) OUTPUT OF ADDER 32
(f) OUTPUT OF DA CONVERTER

FIG. 10

FIG.11


DA CONVERTER
15
SC2
13
23
14
THREAD CONTROLLER
18
12
DC COMPONENT DETECTOR
22'
EC
JP
TC
TCD
10'
16
DRIVER CIRCUIT
11
6
JUMP SIGNAL GENERATOR
TRACKING CONTROLLER
RADIAL DEVIATION COMPONENT DETECTOR
SC1
ST
WR
DRIVER CIRCUIT
19
AD CONVERTER
JS
RP
1
20
4
2
SIGNAL PROCESSOR
TE
5
ROTATIONAL POSITION DETECTOR
CPU
17
3
21
9
8
ROTATION DETECTION SIGNAL GENERATOR
7